

Substitution for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
JUL 20 2001 PATENT & TRADEMARK OFFICE			Application Number	09/755,017	
			Filing Date	January 5, 2001	
			First Named Inventor	Walke	
			Group Art Unit	1645 1647	
			Examiner Name	To Be Assigned Bridget Bunner	
			Attorney Docket Number	LEX-0115-USA	
Sheet	1	of	3	RECEIVED JUL 23 2001 TECH CENTER 1600/2900	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
BBB	AA	4,190,496	—	Rubenstein et al	02/26/80	—
	AB	4,215,051	—	Schroeder et al	07/29/80	—
	AC	4,631,211	—	Houghten	12/23/86	—
	AD	4,683,202	—	Mullis	07/28/87	—
	AE	4,689,405	—	Frank et al	08/25/87	—
	AF	4,713,326	—	Dattagupta et al	12/15/87	—
	AG	4,873,191	—	Wagner et al	10/10/89	—
	AH	4,946,778	—	Ladner et al	08/07/90	—
	AI	5,075,217	—	Weber	12/24/91	—
	AJ	5,252,743	—	Barrett et al	10/12/93	—
	AK	5,364,759	—	Caskey et al.	11/15/94	—
	AL	5,424,186	—	Fodor et al	06/13/95	—
	AM	5,445,934	—	Fodor et al	08/29/95	—
	AN	5,556,752	—	Lockhart et al	09/17/96	—
	AO	5,625,048	—	Tsien et al	04/29/97	—
	AP	5,700,637	—	Southern	12/23/97	—
	AQ	5,744,305	—	Fodor et al	04/28/98	—
	AR	5,837,458	—	Minshull et al	11/17/98	—
	AS	5,877,397	—	Lonberg et al	03/02/99	—
BBB	AT	6,075,181	—	Kucherlapati et al	06/13/00	—

[illegible]

Examiner Signature	<i>Spidock C. Bunner</i>	Date Considered	<i>2/27/2002</i>
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		Examiner Name	To Be Assigned <i>Brunner</i>		
Sheet	2	of	3	Attorney Docket Number	LEX-0115-USA

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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<i>BBB</i>	AU	Askew et al, 1989, "Molecular Recognition with Convergent Functional Groups, Synthetic and Structural Studies with a Model Receptor for Nucleic Acid Components", J. Am. Chem. Soc. 111:1082-1090.	-
	AV	Bird et al, 1988, "Single-Chain Antigen-Binding Proteins", Science 242:423-426.	-
	AW	Bitter et al, 1987, "Expression and Secretion Vectors for Yeast", Methods in Enzymology 153:516-544.	-
	AX	Butler, 1981, "The Amplified ELISA: Principles of and Applications for the Comparative Quantitation of Class and Subclass Antibodies and the Distribution of Antibodies and Antigens in Biochemical Separates", Methods in Enzymology 73:482-523.	-
	AY	Chien et al, 1991, "The two-hybrid system: A method to identify and clone genes for proteins that interact with a protein of interest", Proc. Natl. Acad. Sci. USA 88:9578-9582.	-
	AZ	Colbere-Garapin et al, 1981, "A New Dominant Hybrid Selective Marker for Higher Eukaryotic Cells", J. Mol. Biol. 150:1-14.	-
	BA	Gautier et al, 1987, "α-DNA IV: α-anomeric and β-anomeric tetrathymidylates covalently linked to intercalating oxazolopyridocarbazole. Synthesis, physicochemical properties and poly (rA) binding", Nucleic Acids Research 15(16):6625-6641.	-
	BB	Gordon, 1989, "International Review of Cytology", 115:171-229.	-
	BC	Greenspan et al, 1993, "Idiotypes: structure and immunogenicity", FASEB Journal 7:437-444.	-
	BD	Gu et al, 1994, "Deletion of a DNA Polymerase β Gene Segment in T Cells Using Cell Type-Specific Gene Targeting", Science 265:103-106.	-
	BE	Houghten et al, 1991, "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery", Nature 354:84-86.	-
	BF	Huse et al, 1989, "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda", Science 246:1275-1281.	-
	BG	Huston et al, 1988, "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in Escherichia coli", Proc. Natl. Acad. Sci. USA 85:5879-5883.	-
	BH	Inoue et al, 1987, "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and RNase H", FEBS Letters 215(2):327-330.	-
	BI	Inoue et al, 1987, "Synthesis and hybridization studies on two complementary nona(2'-O-methyl)ribonucleotides", Nucleic Acids Research 15(15):6131-6149.	-
	BJ	Inouye & Inouye, 1985, "Up-promoter mutations in the lpp gene of Escherichia coli", Nucleic Acids Research 13(9):3101-3110.	-
	BK	Janknecht et al, 1991, "Rapid and efficient purification of native histidine-tagged protein expressed by recombinant vaccinia virus", PNAS 88:8972-8976.	-
	BL	Kohler & Milstein, 1975, "Continuous cultures of fused cells secreting antibody of predefined specificity", Nature 256:495-497.	-
	BM	Lakso et al, 1992, "Targeted oncogene activation by site-specific recombination in transgenic mice", Proc. Natl. Acad. Sci. USA 89:6232-6236.	-
	BN	Lam et al, 1991, "A new type of synthetic peptide library for identifying ligand-binding activity", Nature 354:82-86.	-
	BO	Lavitrano et al, 1989, "Sperm Cells and Vectors for Introducing Foreign DNA into Eggs: Genetic Transformation of Mice", Cell 57:717-723.	-
	BP	Lewis et al, 1989, "Automated site-directed drug design: the formation of molecular templates in primary structure generation", Proc. R. Soc. Lond. B 236:141-162.	-
	BQ	Lo, 1983, "Transformation by Iontophoretic Microinjection of DNA: Multiple Integrations without Tandem Insertions", Mol. Cell. Biology 3(10):1803-1814.	-
<i>BBB</i>	BR	Logan et al, 1984, "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection", Proc. Natl. Acad. Sci. USA 81:3655-3659.	-

Bridget C. Brunner

2/27/2002

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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BSB	BS	Lowy et al, 1980, "Isolation of Transforming DNA: Cloning the Hamster apt Gene", Cell 22:817-823.	-
1	BT	McKinlay et al, 1989, "Rational Design of Antiviral Agents", Annu. Rev. Pharmacol. Toxicol. 29:111-122.	-
	BU	Miyajima et al, 1986, "Expression of murine and human granulocyte-macrophage colony-stimulating factors in <i>S. cerevisiae</i> : mutagenesis of the potential glycosylation sites", The EMBO Journal 5(6):1193-1197.	-
	BV	Morrison et al, 1984, "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains", Proc. Natl. Acad. Sci. USA 81:6851-6855.	-
	BW	Mulligan & Berg, 1981, "Selection for animal cells that express the Escherichia coli gene coding for xanthine-guanine phosphoribosyltransferase", Proc. Natl. Acad. Sci. USA 78(4):2072-2076.	-
	BX	Nisonoff, 1991, "Idiotypes: Concepts and Applications", J. of Immunology 147:2429-2438.	-
	BY	O'Hare et al, 1981, "Transformation of mouse fibroblasts to methotrexate resistance by a recombinant plasmid expressing a prokaryotic dihydrofolate reductase", Proc. Natl. Acad. Sci. USA 78(3):1527-1531.	-
	BZ	Platt, K.A. et al, 1994, "Independent Regulation of Adipose Tissue-specificity and Obesity Response of the Adipsin Promoter in Transgenic Mice", The Journal of Biological Chemistry 269(46):28558-28562.	-
	CA	Ripka, 1988, "Computers picture the perfect drug", New Scientist 16:54-57.	-
	CB	Santerre et al, 1984, "Expression of prokaryotic genes for hygromycin B and G418 resistance as dominant-selection markers in mouse L cells", Gene 30:147-156.	-
	CC	Sarin et al, 1988, "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", Proc. Natl. Acad. Sci. USA 85:7448-7451.	-
	CD	Smith et al, 1983, "Molecular Engineering of the Autographa californica Nuclear Polyhedrosis Virus Genome: Deletion Mutations within the Polyhedrin Gene", J. Virol. 46(2):584-593.	-
	CE	Songyang et al, 1993, "SH2 Domains Recognize Specific Phosphopeptide Sequences", Cell 72:767-778.	-
	CF	Stein et al, 1988, "Physicochemical properties of phosphorothioate oligodeoxynucleotides", Nucleic Acids Research 16(8):3209-3221.	-
	CG	Szybalska & Szybalski, 1962, "Genetics of Human Cell Lines. IV. DNA-Mediated Heritable Transformation of a Biochemical Trait", Proc. Natl. Acad. Sci. USA 48:2026-2034.	-
	CH	Takeda et al, 1985, "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences", Nature 314:452-454.	-
	CI	Thompson et al, 1989, "Germ Line Transmission and Expression of a Corrected HPRT Gene Produced by Gene Targeting in Embryonic Stem Cells", Cell 56:313-321.	-
	CJ	Van Der Putten et al, 1985, "Efficient insertion of genes into the mouse germ line via retroviral vectors", Proc. Natl. Acad. Sci. USA 82:6148-6152.	-
	CK	Van Heeke et al, 1989, "Expression of Human Asparagine Synthetase in Escherichia coli", J. Biol. Chemistry 264(10):5503-5509.	-
	CL	Voller et al, 1978, "Enzyme immunoassays with special reference to ELISA techniques", J. Clinical Pathology 31:507-520.	-
	CM	Ward et al, 1989, "Binding activities of a repertoire of single immunoglobulin variable domains secreted from Escherichia coli", Nature 341:544-546.	-
	CN	Wigler et al, 1977, "Transfer of Purified Herpes Virus Thymidine Kinase Gene to Cultured Mouse Cells", Cell 11:223-232.	-
BSB	CO	Wigler et al, 1980, "Transformation of mammalian cells with an amplifiable dominant-acting gene", Proc. Natl. Acad. Sci. USA 77(6):3567-3570.	-

Examiner Signature Bridget C. Bunner Date Considered 2/27/2002

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**SUPPLEMENTAL
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				Examiner Name	to be assigned Bridget Bunner	
Attorney Docket Number				LEX-0115-USA		

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

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BBB	AA	EMBLdatabase, Heidelberg, FRG Accession number AL133267 30 November 1999. Williams, S.: "Human DNA sequence from clone RP3-408B20 on chromosome 6 contains ESTs, STSs and GSSs. Contains a gene and two pseudogenes for novel 7 transmembrane receptors (olfactory family)...: XP002168049	
BBB	AB	ROUQUIER, S. ET AL.: "Distribution of olfactory receptor genes in human genome: NATURE GENETICS, VOL. 18, NO. 3, March 1998 pages 243-250, XP002111208	
BBB	AC	EMBL database, Heidelberg, FRG Accession number U86270 10 March 1998. ROUQUIER, S. ET AL.: "Homo sapiens olfactory receptor (OR5-40) gene, partial cds." XP002168050	

Examiner Signature	Bridget E. Bunner	Date Considered	2/27/2002
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